	Application No.	Applicant(s)
Notice of Allowability	10/753,968	PAPIERNIK ET AL.
	Examiner	Art Unit
	Thomas K. Pham	2121
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the (OR REMAINS) CLOSED in this correction or other appropriate communicate GHTS. This application is subject and MPEP 1308.	e correspondence address application. If not included ion will be mailed in due course. THIS
1. This communication is responsive to <u>amendment filed 04/0</u>	<u>04/2006</u> .	`
2. The allowed claim(s) is/are <u>2-5 and 7-18</u> .		
3.	e been received. been received in Application No. cuments have been received in the of this communication to file a rep dENT of this application. itted. Note the attached EXAMINE as reason(s) why the oath or decla be submitted. con's Patent Drawing Review (PT) s Amendment / Comment or in the declaration of the de	oly complying with the requirements ER'S AMENDMENT or NOTICE OF caration is deficient. O-948) attached e Office action of wings in the front (not the back) of 21(d). L must be submitted. Note the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summa . Paper No./Mail [8), 7. ☑ Examiner's Amer	Date

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Henry M. Feiereisen on 04/05/2006.

The application has been amended as follows:

Claim 7. (Currently amended) A method for identifying a control path of a controlled system, comprising the steps of:

determining at least one deterministic perturbation correcting signal in a first identification process;

storing the perturbation correcting signal in the form of a function; [and] identifying a control path of the controlled system in a second identification process by adding to the controlled system the at least one stored deterministic perturbation correcting signal with a negative feedback[,]; and

applying in the second identification process to the input of the controlled system a stimulus signal for exciting the controlled system,

wherein the stimulus signal has a broad-band frequency spectrum.

Reasons for Allowance

2. Claims 2-5 and 7-18 are allowed.

3. The following is an examiner's statement of reasons for allowance:

While Weihrich et al. (U.S. Patent No. 5,036,265) discloses a method for eliminating the effect of periodic disturbance variable having a known, variable frequency. The correction signal required to exactly compensate for the disturbance variable is determined from the sine and cosine component of the periodic disturbance signal component by means of frequency-controlled function generators and a complex phasor calculation. Weihrich does not disclose a stimulus signal for exciting the controlled system, wherein the stimulus signal has a broad-band frequency spectrum, or using Fourier transform for transforming an input signal and an output signal of the controlled system into the frequency domain, dividing the Fourier-transformed output signal by the Fourier-transformed input signal, and computing transmission function to identify the control path as part of the second identification process; and other limitations related to these features in combination with the remaining elements and features of the claimed invention.

And Wise (U.S. Patent No. 5,777,871) discloses a servo control system with electronic feedback control including digital and analog error compensation employed in aircrafts, ground vehicles, robots and the like with or without input affect of the operators. Both time-delay and single pole response are given an operating range, applicable from very quick to relatively slow or tired operators. Wise does not disclose Fourier-transforming an input signal and an output signal of the controlled system into the frequency domain, dividing the Fourier-transformed output signal by the Fourier-transformed input signal, and computing transmission function to

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identify the control path as part of the second identification process; and other limitations related

to these features in combination with the remaining elements and features of the claimed

invention.

The prior art of record fails to teach or fairly suggest to one of ordinary skill in the art at

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the time of the invention, in conjunction with all the other claimed limitations, a method for

identifying a control path of a controlled system having all the claimed features of applicant's

instant invention, specifically including: a stimulus signal for exciting the controlled system,

wherein the stimulus signal has a broad-band frequency spectrum, Fourier-transforming an input

signal and an output signal of the controlled system into the frequency domain, dividing the

Fourier-transformed output signal by the Fourier-transformed input signal, and computing

transmission function to identify the control path as part of the second identification process.

Also, there is no motivation to combine the ... reference with the ... reference to meet

these limitations. It is for these reasons that applicant's invention defines over the prior art of

record.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

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examiner should be directed to examiner Thomas Pham; whose telephone number is (571) 272-

3689, Monday to Thursday from 6:30 AM - 5:00 PM EST or contact Supervisor Mr. Anthony

Knight at (571) 272-3687.

Information regarding the status of an application may be obtained from the Patent

Any inquiry concerning this communication or earlier communications from the

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thomas Pham

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Patent Examiner

April 5, 2006

Supervisory Patent Examiner